Update and Status of Select ANSI C63 Standards

TCB Workshop
April 8, 2020

C63.4 Unintentional Radiators
C63.4a-2017 (Amendment)

- The FCC released a Public Notice (PN DA 19-152) in April, 2019 seeking public comment on a proposal received from Accredited Standards Committee (ASC) C63 to incorporate ANSI C63.4a-2017 into the rules
- Comments and reply comments have been compiled and available for review using the Electronic Comment Filing System (ECFS) and Docket number 19-48
- Action on the proposal is still pending within FCC

C63.4 Unintentional Radiators

Full Standard Revision

- Motion made in December to forward revised draft C63.4 Standard from Subcommittee (SC1) to Parent Committee (C63)
  - January vote failed to obtain a necessary simple majority for approval.
- New motion made to forward a package to Parent Committee containing a “clean” and a “red-line” copy of the draft standard, along with a table documenting the comments and proposed resolutions
  - This motion passed by simple majority vote in March
- Parent Committee to form a balloting committee to consider adoption of the draft standard

C63.10 Unlicensed Wireless Devices

- WG recently completed response to interpretation request regarding loop antenna orientation as described in Clause 6.4.6 of C63.10-2013
  - Draft interpretation was approved without objection in an email vote that concluded on March 31, 2020.
- The revision to the C63.10-2013 standard is proceeding toward publication

C63.26 Licensed Transmitters

- mmWave Task Group continues to meet frequently to monitor and assess test data obtained from compliance tests performed on new mmWave products
- Signal Booster Task Group considering proposal from new member to revise existing test procedure to expand test requirements into an additional frequency band
- Revision to C63.26-2015 standard is proceeding

C63.29 Lighting Products

- Developing procedures for LED Driver setup/configuration and requisite loading for performing compliance measurements
- Finalizing procedures for compliance testing of dimmer switches with TRIAC enabled/disabled as specified by the regulator
- WG expects to complete draft Standard by Q3 2020.

C63.30 Wireless Power Transfer Products

- Large Loop Antenna System (LLAS) calibration procedures nearing finality.
  - Good correlation between data sets collected by different labs
- Identified a means to facilitate reference to McNulty white paper:
  - Established an FCC link with e-Doc number for inclusion into standard bibliography
  - Link also posted on C63 Website
- Draft standard is in final stage of preparation and will be forwarded to SC4 for review and ballot imminently.

C63.31 ISM Equipment

- Developing general and *in-situ* procedures for acquiring the requisite data to demonstrate compliance of Industrial, Scientific, and Medical (ISM) equipment to the technical requirements specified in Subpart C of Part 18 of FCC rules
  - Objective is to update FCC MP-5; *FCC Methods of Measurements of Radio Noise Emissions from Industrial, Scientific, and Medical Equipment*, published in 1986
- New Working Group (WG) Chair assumed responsibility in November 2019
- First edition focused on updating MP-5
  - Inclusion of CISPR 11 ISM will be considered in later edition
- Target publication date of Q4 2020

C63.25: Validation Methods for Radiated Emission Test Sites

- Working Group C63.25 developing a new family of standards that will consolidate qualification and validation procedures for radiated test sites intended for use over various frequency ranges:
  - C63.25.1 applicable over 1-18 GHz;
  - C63.25.2 applicable over 30-1000 MHz;
  - C63.25.3 applicable over 9 kHz-30 MHz, and
  - C63.25.4 applicable over 18-40 GHz.
- C63.25.1-2019 is the first in the series to be published

ANSI C63.25.1-2019 Standard

- Consolidates test site validation procedures from 1-18 GHz as currently contained in ANSI C63.4-2014 and CISPR 16-1-4: 2010
  - CISPR methodology uses the Site Voltage Standing Wave Ratio (SVSWR) that involves measuring responses between antennas while their separation distances are varied
- Introduces an optional Time Domain Site Validation (TDSV) method that:
  - involves measurement of responses between antennas but doesn't require varying their separation distances
  - reduces sensitivity of test results caused by small test setup changes
  - improves measurement repeatability while requiring less time to perform.

ASC C63 Petition for Rulemaking

- ANSI ASC C63 petitioned FCC to initiate a rulemaking to incorporate ANSI C63.25.1 into the rules(*e.g.*, §2.910, §2.948(d))
  - Requests that new Time Domain Site Validation (TDSV) procedure be recognized as an option to the traditional CISPR SVSWR methodology for validating radiated test sites in the 1-18 GHz frequency range.
- FCC not yet acted on the petition but will likely be seeking public comment soon.

C63.19 EMC for Hearing Aids

- WG recently published ANSI C63.19-2019: *American National Standard Methods of Measurement of Compatibility Between Wireless Communications Devices and Hearing Aids* that:
  - revises currently recognized C63.19-2011,
  - replaces the acoustic and inductive (M/T) ratings previously used to quantify Hearing Aid Compatibility (HAC),
  - introduces a new volume control requirement consistent with similar landline requirement specified in ANSI/TIA-5050, and
  - expands the applicable frequency range.

ASC C63 Petition for Rulemaking

- FCC Wireless Telecommunications Bureau (WTB) released Notice of Proposed Rulemaking (NPRM) on January 30th, 2020 proposing, among other things, to incorporate the new ANSI C63.19-2019 standard into the FCC wireless HAC rules and recognize it as exclusive.
  - NPRM FCC 20-6
  - WT Docket No. 20-3

FCC 20-6 NPRM

- The HAC NPRM proposes to:
  - incorporate C63.19-2019 into FCC rules and for it to serve as exclusive test standard for determining HAC after a two-year transition period,
  - extend current volume control deadline so that new requirement will coincide with recognition of C63.19-2019 test standard exclusivity,
  - remove unnecessary or superseded rule provisions,
  - update and modernize HAC labeling requirements
  - solicit stakeholder comments on ways to simplify and update the HAC rules.
- Comments may be filed and reviewed electronically by accessing the ECFS at: https://www.fcc.gov/ecfs/

Questions?